CLAIMS

A method for the preparation of genetically-modified fibroblasts expressing a muscle lineage commitment gene, which comprises:

- 5 a) ex-vivo transduction of fibroblasts with a therapeutic gene or a gene capable of correcting a gene defect;
 - b) transient expression of the muscle lineage commitment gene in fibroblasts transduced as at point (a), through transformation of the cells with a high-efficiency DNA transfer method, wherein the muscle lineage commitment gene is under the control of a strong promoter.
 - A method according to claim 1, wherein the therapeutical gene is the dystrophin gene.
 - A method according to claim 1, wherein the high-efficiency DNA transfer method is a viral vector.
 - A method according to claim 3, wherein said viral vector is selected from baculovirus, adeno-related viruses, adeno-virus.
 - A method according to claim 3, wherein said vector is an adenovirus.
 - A method according to claim 1, wherein the muscle lineage commitment gene is selected from MyoD, Myf-5, MRF4 and myogenin.
- 20 7. / A method according to claim 6, wherein said gene is MyoD.
 - A method according to claim 1, wherein the muscle lineage commitment gene is under the control of a viral promoter.
- 9. Genetically-modified fibroblasts obtainable by the method of claims 14
- 25 10. Fibriblasts according to claim 9, wherein the muscle lineage commitment gene is MyoD.



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